		Pushing the Env	elope
	200	6 21st Century Ma	
		Standards and Obj	
West Virginia 21st Co	entury Mathematics		
Grade 5			
Activity/Lesson	State	Standards	
			Collect, record, estimate and calculate elapsed
History of Aviation			times from real-world situations (with and
Propulsion (pgs. 5-9)	WV	MA.5.M.O.5.4.7	without technology).
			Estimate and/or measure the weight/mass of
Types of Engines (real objects in ounces, pounds, grams, and
pgs. 11-23)	WV	MA.5.M.O.5.4.6	kilograms.
			Develop strategies (i.e. finding number of same
			sized units of volume)to determine the volume of
			a rectangular prism; solve application problems
Chemistry (pgs. 25-			involving estimating or measuring volume of
41)	WV	MA.5.M.O.5.4.3	rectangular prisms.
Physics and Math			Model and write equivalencies of fractions,
(pgs. 43-63)	WV	MA.5.M.O.5.1.6	decimals, percents, and ratios.
,			
		Pushing the Env	elope
	200	6 21st Century Ma	
		Standards and Obj	
West Virginia 21st Co			
Grade 6			
Activity/Lesson	State	Standards	
- 10.111.j/ = 000011			Develop strategies to determine volume of
Chemistry (pgs. 25-			cylinders; solve real-world problems involving
41)	WV	MA.6.M.O.6.4.4	volume of cylinders, justify the results.
,			Determine the rule, output or input; given an
			input/output model using one operation, write an
Physics and Math			algebraic expression for the rule and use to
(pgs. 43-63)	WV	MA 6 M O 6 2 4	identify other input/output values.
(pgc. 10 00)		100 0.0.101.0.0.2.1	adminy other impairoutput values.
		Pushing the Env	l Plone
	200	6 21st Century Ma	
		Standards and Obj	
West Virginia 21st Co			
Grade 7			
Activity/Lesson	State	Standards	
71011711Y/12000011	Otato	Otanaarao	Analyze proportional relationships in real-world
			situations, select an appropriate method to
Physics and Math			determine the solution and justify reasoning for
(pgs. 43-63)	WV	MA.7.M.O.7.2.4	choice of method to solve.
(P30. 10 00)			Chicago of motified to dolly 0.
		Pushing the Env	elone
	200	6 21st Century Ma	
		Standards and Obj	
West Virginia 21st Ce			
Grade 8	intary matriciliants		
Activity/Lesson	State	Standards	
Activity/Lesson	Jiaie	Juanuarus	

	1		
			Identify a real life problem involving change over
			time; make a hypothesis as to the outcome;
			develop, justify, and implement a method to
			collect, organize, and analyze data; generalize
			the results to make a conclusion; compare the
			hypothesis and the result of the investigation;
History of Aviation		MA.8.M.O.8.2.1	present the problem using words, graphs,
Propulsion (pgs. 5-9)	WV	0	drawings, models, or tables.
r ropulsion (pgs. 6-6)	V V		Solve problems involving missing
			measurements in plane and solid geometric
Types of Engines (figures using formulas and drawings including
, , ,	WV	MA.8.M.O.8.4.2	irregular figures, models or definitions.
pgs. 11-23)	VVV	IVIA.0.IVI.U.0.4.2	
			Solve problems involving missing
01 : 1 / 05			measurements in plane and solid geometric
Chemistry (pgs. 25-			figures using formulas and drawings including
41)	WV	MA.8.M.O.8.4.2	irregular figures, models or definitions.
			Apply inductive and deductive reasoning to write
			a rule from data in an input/output table, analyze
Physics and Math			the table and the rule to determine if a functional
(pgs. 43-63)	WV	MA.8.M.O.8.2.5	relationship exists.
Physics and Math			Formulate and apply a rule to generate an
(pgs. 43-63)	WV	MA.8.M.O.8.2.7	arithmetic, geometric and algebraic pattern.
			Solve problems involving missing
			measurements in plane and solid geometric
Physics and Math			figures using formulas and drawings including
(pgs. 43-63)	WV	MA.8.M.O.8.4.2	irregular figures, models or definitions.
,			Solve problems involving missing
			measurements in plane and solid geometric
Rocket Activity (pgs.			figures using formulas and drawings including
69-75)	WV	MA 8 M O 8 4 2	irregular figures, models or definitions.
00 10)			in egalar ligaree, medele er deminione.
		ushing the Enve	elope
		21st Century Ma	
		andards and Obj	
West Virginia 21st Ce			
Grades 9-12 (Algebra			
Activity/Lesson	State	Standards	
.,			Identify a real life situation that involves a
			constant rate of change; pose a question; make
			a hypothesis as to the answer; develop, justify,
			and implement a method to collect, organize,
			and analyze related data; extend the nature of
			collected, discrete data to that of a continuous
			linear function that describes the known data
			set; generalize the results to make a conclusion;
			compare the hypothesis and the conclusion;
			present the project numerically, analytically,
			graphically and verbally using the predictive and
Types of Engines (MA.9-	analytic tools of algebra (with and without
pgs. 11-23)	WV	12.M.O.A1.2.8	technology).

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			Define a function and find its zeros; express the domain and range using interval notation; find
			the inverse of a function; find the value of a
			function for a given element in its domain; and
Physics and Math		MA.9-	perform basic operations on functions including
(pgs. 43-63)	WV	12.M.O.A2.2.7	composition of functions.